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## Office Memorandum • UNITED STATES GOVERNMENT

	The Files	DATE: 30 October 1956
FROM :		
SUBJECT:	(Contract RD-107, Task Ord	er 4, 2 0 1 50 M1 E1 1
	1. On 25 October 1956. a m	esting was held at
order	. Present at the meeting w	to discuss the subject task
	2. prog	
to the any verthe a by adding the inches	raging. The design techniq e point where each antenna ery low frequency. The ban meunt of loading (maximum ding more antennas in paral e last monthly report has a s in the extended position,	ress in this task order has been most use of the S-T antenna has been reduced of the matrix can be tuned separately to d width of the antenna is determined by Q=200). Effective height is added merely lel. The experimental design as described physical size of 14 x 9 1/4 x 4 1/2 collapsing to 14 x 9 1/4 x 2 1/2 inches.
to the amy very the amy very the ambiguity than ferring this like the components of	raging. The design technique point where each antenna ery low frequency. The ban mount of loading (maximum ding more antennas in parallel last monthly report has a sin the extended position, antenna has an effective he the air core comparison locate rods and these will be i antenna will have dimension 18 x 2 1/2 inches. The antenna has approximately 10. The present design support	of the S-T antenna has been reduced of the matrix can be tuned separately to d width of the antenna is determined by Q=200). Effective height is added merely lel. The experimental design as described physical size of 14 x 9 1/4 x 4 1/2 collapsing to 14 x 9 1/4 x 2 1/2 inches. ight approximately five times greater p. has been able to sinter 18 inch noorporated in the deliverable antenna. Is of 14 x 18 x 4 1/2 collapsable to enna with 18 inch rods will have an eftimes greater than that of the air core ts the ferrite rods at either end and
to the any verthe a by adding the inches than ferris like x fections.	raging. The design technique point where each antenna ery low frequency. The ban mount of loading (maximum ding more antennas in paralle last monthly report has a s in the extended position, antenna has an effective he the air core comparison locate rods and these will be in antenna will have dimension 18 x 2 1/2 inches. The antenna will have dimension 18 x 2 1/2 inches. The antenna will approximately 10. The present design supported too fragile for extremely	of the S-T antenna has been reduced of the matrix can be tuned separately to d width of the antenna is determined by Q=200). Effective height is added merely lel. The experimental design as described physical size of 14 x 9 1/4 x 4 1/2 collapsing to 14 x 9 1/4 x 2 1/2 inches. ight approximately five times greater p. has been able to sinter 18 inch noorporated in the deliverable antenna. Is of 14 x 18 x 4 1/2 collapsable to enna with 18 inch rods will have an eftimes greater than that of the air core ts the ferrite rods at either end and
to the any verthe and the second that the second that the second that the second that the second that the second the second the second that the se	raging. The design technique point where each antenna ery low frequency. The ban mount of loading (maximum ding more antennas in parallel last monthly report has a sin the extended position, antenna has an effective he the air core comparison locate rods and these will be in antenna will have dimension like x 2 1/2 inches. The antenna will have dimension like x 2 1/2 inches. The antenna will have dimension to the present design support too fragile for extremely like polystyrene supports would tivity.  3. The antenna exhibits the nas (50 db estimated). Instentirely by the loading, intenna has been designed for extremal and the support of the su	we of the S-T antenna has been reduced of the matrix can be tuned separately to d width of the antenna is determined by Q=200). Effective height is added merely lel. The experimental design as described physical size of 14 x 9 1/4 x 4 1/2 collapsing to 14 x 9 1/4 x 2 1/2 inches. ight approximately five times greater p. has been able to sinter 18 inch moorporated in the deliverable antenna. It is ef 14 x 18 x 4 1/2 collapsable to enna with 18 inch rods will have an eftimes greater than that of the air core to the ferrite rods at either end and rough handling. In opinion, additionable very little effect on antenna the very definite nulls associated with loop assuch as the band width is determined a good impedance match is very important. In a 72 ohm output impedance to yield 2000 Transformer This impedance could be change

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6. loop, the twin legeneration loop we transmission line line taken out at height of the air calculation of each	ad transmission line was all hich had the effect of indu- . When the test was repeated the center of the field gen core loss was as shown in	he initial test of the air core lowed to touch the test field cing very high currents in the ed using shielded transmission meration loop, the effective the last monthly report. This lude Q because in this appli-	25X <sup>-</sup>
			25 <b>X</b> 1